

DIE FOR A TOOL SET FOR MECHANICAL JOINING

ABSTRACT OF THE DISCLOSURE

The invention relates to a die for a tool set for the mechanical joining of sheets resting one on top of the other in a planar manner by forming with at least one punch and a die which defines a cavity into which joining is effected, and the die comprises an anvil opposite the punch and die segments which adjoin the said anvil, define the cavity in the circumferential direction and, when the punch is being fed in the direction of the anvil, execute a yielding movement transversely to the punch feed direction, for which purpose the die segments are arranged on a supporting surface in such a way that they can be displaced outwards against spring preloading, and the die is encased circumferentially by a die sleeve, the die sleeve, in the circumferential direction, following a division into die segments, having individual segment guides which form guideways extending through the die sleeve, and in which the die segments are guided in such a way as to be displaceable outwards as sliding pieces formed with an extension.

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